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| Applicant:  | Petajisto   | Examiner:       | UNKNOWN     |
| Serial No.: | 09/716711   | Group Art Unit: | 2661        |
| Filed:      | 11/20/00  | Docket No.:     | 975.316USW1 |
| Title:      | METHOD AND APPARATUS FOR PERFORMING A CONNECTION<br>ADMISSION CONTROL |                 |             |

CERTIFICATE UNDER 37 C.F.R. 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described herein, are being deposited in the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on April 26, 2001

Michael B. Lasky  
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Group Art Unit 2661  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Enclosed is a certified copy of European application, Serial Number  
PCT/EP98/03388, filed 5 June 1998, the priority of which is claimed under 35 U.S.C.  
§119.

Respectfully submitted,

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Date: April 26, 2001

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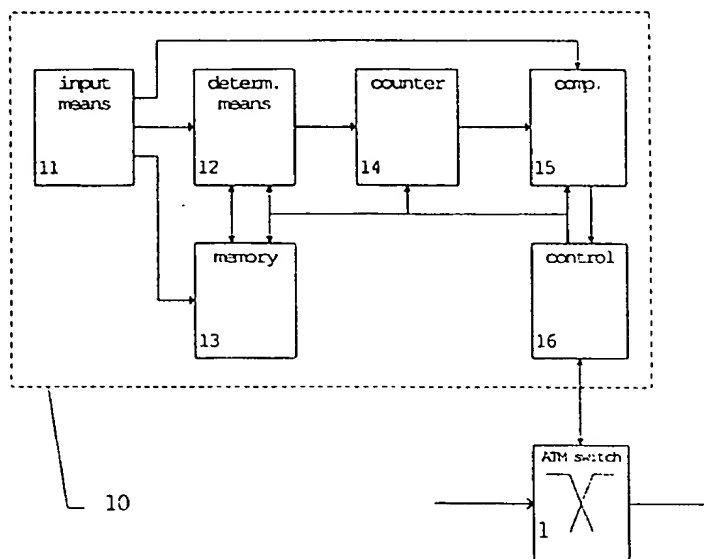
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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| (51) International Patent Classification <sup>6</sup> :<br><b>H04L 12/56, H04Q 11/04</b>  | <b>A1</b> | (11) International Publication Number: <b>WO 99/65194</b><br>(43) International Publication Date: 16 December 1999 (16.12.99)  |
| (21) International Application Number: PCT/EP98/03388<br>(22) International Filing Date: 5 June 1998 (05.06.98)<br>(71) Applicant (for all designated States except US): NOKIA NETWORKS OY [FI/FI]; P.O. Box 300, FIN-00045 Nokia Group (FI).<br>(72) Inventor; and<br>(75) Inventor/Applicant (for US only): PETÄJISTÖ, Antti [FI/FI]; Nokia Telecommunications Oy (NWS/SWP), P.O. Box 300, FIN-00045 Nokia Group (FI).<br>(74) Agent: PELLMANN, Hans-Bernd; Tiedtke-Bühling-Kinne et. al., Bavariaring 4, D-80336 München (DE). |           | (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i> |

(54) Title: METHOD AND APPARATUS FOR PERFORMING A CONNECTION ADMISSION CONTROL



## (57) Abstract

In summary, a method and apparatus for performing a connection admission control in an asynchronous network node is disclosed, wherein approximation parameters obtained by approximating a traffic parameter function defining an effective bandwidth of a connection are stored and used to determine a value representing an effective bandwidth of a requested new connection. Since the approximation parameters are calculated in advance and stored, the determination of the effective bandwidth of a requested connection can be performed by simple calculations based on the stored approximation parameters. Thus, the invention presents an extremely simple CAC procedure which is accurate enough to take full advantage of statistical multiplexing. Due to the fast calculations, the connection admission control method and apparatus are suitable for real-time connection admission control decisions.

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